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APPLICATION NO.		ING DATE	FIRST NAMED INVENTOR Bernard Fay	PAO233	CONFIRMATION NO. 7838
09/881,026	6 06/15/2001				
30743	7590	05/13/2003			
	•	& CHRISTOF	EXAMINER		
11491 SUNS SUITE 340	ET HILLS	ROAD	YOUNG, CHRISTOPHER G		
RESTON, VA	¥ 20190			ART UNIT	PAPER NUMBER
				1756	
				DATE MAILED: 05/13/2003	(

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Application (s)
		09/881,026	FAY et al.
Offic /	Action Summary	Examiner /ou.	Group Art Unit
		•	
—The MAILING	DATE of this communication ap	pears on the cover sheet	beneath the correspondence address—
Period for Reply		5	· ·
A SHORTENED STATU OF THIS COMMUNICA		ET TO EXPIRE	MONTH(S) FROM THE MAILING DATE
from the mailing date of - If the period for reply sp - If NO period for reply is	this communication. ecified above is less than thirty (30) day specified above, such period shall, by di	s, a reply within the statutory mining fault, expire SIX (6) MONTHS from	rer, may a reply be timely filed after SIX (6) MONTHS mum of thirty (30) days will be considered timely. om the mailing date of this communication . become ABANDONED (35 U.S.C. § 133).
Status		11	
Responsive to con	nmunication(s) filed on	//30/03	
This action is FINA			
 Since this applicat accordance with the 	ion is in condition for allowance ex ne practice under <i>Ex parte Quayle</i>	cept for formal matters, pro , 1935 C.D. 1 1; 453 O.G. 21	secution as to the merits is closed in 13.
Disposition of Claims	1.10		
Claim(s) ————	1-12	is/are pending in the application.	
Of the above clain	n(s) // +/2	is/are pending in the application.	
☐ Claim(s)		is/are allowed.	
∯-Claim(s)	1-10	ie/are rejected.	
□ Claim(s)		is/are objected to.	
✓ Claim(s)	1-12	are subject to restriction or election requirement.	
Application Papers			requirement.
	Notice of Draftsperson's Patent Dr	• .	
• •	wing correction, filed on		
•	ed on is/are	objected to by the Examiner.	
•	s objected to by the Examiner.		
	ration is objected to by the Examir	er.	
Priority under 35 U.S.	C. § 119 (a)-(d)		
)-(d).
☐ All ☐ Some* ☐ received.	is made of a claim for foreign prior None of the CERTIFIED copie	es of the priority documents I	have been
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☐ All ☐ Some* ☐ received. ☐ received in App ☐ received in this *Certified copies r	□ None of the CERTIFIED copie lication No. (Series Code/Serial Nonational stage application from the not received: sure Statement(s), PTO-1449, Page	es of the priority documents in the priority	have been Rule 1 7.2(a)).

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

- 1. This Office action is responsive to the amendment (Paper No. 9) filed April 30, 2003 wherein the specification was amended and claims 8 and 12 were amended.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. The traverse of the restriction requirement in the remarks of the amendment has been carefully considered but is not deemed to be persuasive for the reasons of record as set forth in the restriction requirement and response to traversal of the last Office action, Paper No. 2 in combination with the following remarks.

The Examiner has reconsidered applicants' comments regarding the restriction requirement of record but does not find them persuasive in obviating the restriction requirement, nor persuasive in rejoining of the non-elected claims (11 and 12) currently being non-examined. It is clear that to examine both process, apparatus and product claims will require a divergent field of search and consideration of a multitude of embodiments for the various inventions. This would result in an undue burdensome search and examination. The original restriction requirement set forth three separate classes as the issuing classes for the method, mark and apparatus of Groups I-III. The elected invention of claims 1-10, classified in Class 430, subclass 30, has no mandatory search in the specific mark or

apparatus areas as set forth by the Examiner in the original restriction requirement. The Examiner's initial response to the traversal was adequate in addressing the original reasons for traversing the restriction requirement presented by applicants. In view of the additional comments presented after the restriction requirement was repeated and made FINAL, the Examiner is providing the additional reasons set forth above to clarify and complete the record commensurate with applicants' assertions that the record is unclear in its current state. The restriction requirement set forth in the original Office action and the previous Office action (Paper Nos. 6 and 8) is hereby repeated and made FINAL.

4. Claim 1 is rejected under 35 U.S.C. § 102(b) as being anticipated by Kawakubo et al.

The discussion in the remarks of the amendment explaining why the scope of the protection sought is patentable over the applied prior art of record has been carefully considered but is not deemed to be persuasive for the reasons of record as set forth in paragraph 4 of the last Office action in combination with the following remarks.

The Examiner makes specific mention of column 20, line 57 - column 21, line 7, wherein a method for measuring overlay alignment utilizing an interference pattern is disclosed. This type of alignment, a so-called two beam interference method, is

also referred to as LIA methods of alignment. Since the reference is referring to alignment of overlying layers, it is inherent that the gratings are "interleaved" so that determination of alignment can be obtained through use of the LIA alignment method. If the grating patterns were not "interleaved", then achievement of alignment could not be effected since a singular pattern put down in a singular step would necessarily be aligned with itself.

5. Claims 1-10 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kawakubo et al. in combination with one of ordinary skill in the requisite art's ability.

The discussion in the remarks of the amendment explaining why the scope of the protection sought is patentable over the applied prior art of record has been carefully considered but is not deemed to be persuasive for the reasons of record as set forth in paragraph 5 of the last Office action in combination with the following remarks.

The Examiner has considered applicants' response regarding the <u>prima facie</u> obvious rejection. Applicants have asserted that the Examiner's statement of one of ordinary skill in the requisite art in possession of the Kawakubo et al. teachings would have found use of all well known interference pattern generating alignment devices, and their associated property characteristics in the method of Kawakubo et al., <u>prima</u>

facie obvious absent objective evidence of high probative value to the contrary as lacking in motivation. The Examiner disagrees and specifically points out that in the instant application's specification, it is admitted that the apparatus performing the LIA alignments are well known in the art and this fact in combination with the teachings of Kawakubo et al. stating that any well known apparatus for LIA alignment could be utilized in their invention, renders the scope of the protection sought prima facie obvious and provides motivation to utilize any well known LIA alignments including the apparatus set forth in the instant specification, admitted as prior art.

6. THIS ACTION IS MADE FINAL. Applicants are reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a). The practice of automatically extending the shortened statutory period an additional month upon the filing of a timely first response to a final rejection has been discontinued by the Office. See 1021 TMOG 35.

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE

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PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Young, whose telephone number is (703) 308-2984. The examiner can normally be reached on Monday through Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff, can be reached on (703) 308-2464. A Fax communication that is for a non-final fax should be sent to (703) 872-9310. An after final fax should be sent to (703) 872-9311.

Any inquiry of general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

Christopher G. Young Primary Examiner

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C. Young:cdc May 12, 2003